

Robert J Mitchell

List of Publications by Year in descending order

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74
papers

2,262
citations

185998

28
h-index

243296

44
g-index

75
all docs

75
docs citations

75
times ranked

2533
citing authors

#	ARTICLE	IF	CITATIONS
1	Predation of colistin- and carbapenem-resistant bacterial pathogenic populations and their antibiotic resistance genes in simulated microgravity. <i>Microbiological Research</i> , 2022, 255, 126941.	2.5	12
2	The Kiss of Death: <i>Serratia marcescens</i> Antibacterial Activities against <i>Staphylococcus aureus</i> Requires Both <i>de novo</i> Prodigiosin Synthesis and Direct Contact. <i>Microbiology Spectrum</i> , 2022, 10, e0060722.	1.2	4
3	Use of Resazurin To Rapidly Enumerate <i>Bdellovibrio</i> and Like Organisms and Evaluate Their Activities. <i>Microbiology Spectrum</i> , 2022, 10, .	1.2	6
4	Alkali Extraction to Detoxify Rice Husk-Derived Silica and Increase Its Biocompatibility. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 7811-7817.	3.2	6
5	Diffusible Signaling Factor, a Quorum-Sensing Molecule, Interferes with and Is Toxic Towards <i>Bdellovibrio bacteriovorus</i> 109J. <i>Microbial Ecology</i> , 2021, 81, 347-356.	1.4	12
6	Biotechnological Activities and Applications of Bacterial Pigments Violacein and Prodigiosin. <i>Journal of Biological Engineering</i> , 2021, 15, 10.	2.0	42
7	Antimicrobial PEGtides: A Modular Poly(ethylene glycol)-Based Peptidomimetic Approach to Combat Bacteria. <i>ACS Nano</i> , 2021, 15, 9143-9153.	7.3	15
8	<i>Chromobacterium violaceum</i> delivers violacein, a hydrophobic antibiotic, to other microbes in membrane vesicles. <i>Environmental Microbiology</i> , 2020, 22, 705-713.	1.8	53
9	Concentric liquid reactors for chemical synthesis and separation. <i>Nature</i> , 2020, 586, 57-63.	13.7	19
10	Enhanced microbial fuel cell (MFC) power outputs through Membrane Permeabilization using a branched polyethyleneimine. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112623.	5.3	6
11	Loss of the lipopolysaccharide (LPS) inner core increases the electrocompetence of <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 7427-7435.	1.7	6
12	Consumption of Oleic Acid During Matrophagy in Free-Living Nematodes Alleviates the Toxic Effects of the Bacterial Metabolite Violacein. <i>Scientific Reports</i> , 2020, 10, 8087.	1.6	4
13	Compounds affecting predation by and viability of predatory bacteria. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 3705-3713.	1.7	3
14	Environmental and Biotic Factors Impacting the Activities of <i>Bdellovibrio bacteriovorus</i> . , 2020, , 155-172.		2
15	Sensitivity of predatory bacteria to different surfactants and their application to check bacterial predation. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 8169-8178.	1.7	20
16	Viscosity has dichotomous effects on <i>Bdellovibrio bacteriovorus</i> HD100 predation. <i>Environmental Microbiology</i> , 2019, 21, 4675-4684.	1.8	20
17	The Cytotoxic Necrotizing Factor of <i>Yersinia pseudotuberculosis</i> (CNFy) is Carried on Extracellular Membrane Vesicles to Host Cells. <i>Scientific Reports</i> , 2018, 8, 14186.	1.6	15
18	<i>Bdellovibrio bacteriovorus</i> HD100, a predator of Gram-negative bacteria, benefits energetically from <i>Staphylococcus aureus</i> biofilms without predation. <i>ISME Journal</i> , 2018, 12, 2090-2095.	4.4	42

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19	Enhanced sensitivity and responses to viologens from a whole-cell bacterial bioreporter treated with branched polyethyleneimines. <i>Journal of Applied Microbiology</i> , 2017, 123, 1478-1487.	1.4	2
20	Serum albumin and osmolality inhibit <i>Bdellovibrio bacteriovorus</i> predation in human serum. <i>Scientific Reports</i> , 2017, 7, 5896.	1.6	23
21	Combined Application of Bacterial Predation and Violacein to Kill Polymicrobial Pathogenic Communities. <i>Scientific Reports</i> , 2017, 7, 14415.	1.6	43
22	<i>Staphylococcus aureus</i> extracellular vesicles (EVs): surface-binding antagonists of biofilm formation. <i>Molecular BioSystems</i> , 2017, 13, 2704-2714.	2.9	33
23	Attack-Phase <i>Bdellovibrio bacteriovorus</i> Responses to Extracellular Nutrients Are Analogous to Those Seen During Late Intraperiplasmic Growth. <i>Microbial Ecology</i> , 2017, 74, 937-946.	1.4	19
24	Violacein and bacterial predation: promising alternatives for priority multidrug resistant human pathogens. <i>Future Microbiology</i> , 2017, 12, 835-838.	1.0	16
25	Toxicity evaluation of e-juice and its soluble aerosols generated by electronic cigarettes using recombinant bioluminescent bacteria responsive to specific cellular damages. <i>Biosensors and Bioelectronics</i> , 2017, 90, 53-60.	5.3	10
26	Cyanide Production by <i>Chromobacterium piscinae</i> Shields It from <i>Bdellovibrio bacteriovorus</i> HD100 Predation. <i>MBio</i> , 2017, 8, .	1.8	28
27	Investigating the Responses of Human Epithelial Cells to Predatory Bacteria. <i>Scientific Reports</i> , 2016, 6, 33485.	1.6	47
28	Feasibility of a facile butanol bioproduction using planetary mill pretreatment. <i>Bioresource Technology</i> , 2016, 199, 283-287.	4.8	15
29	Isolation and characterization of antifungal violacein producing bacterium <i>Collimonas</i> sp. DEC-B5. <i>Korean Journal of Microbiology</i> , 2016, 52, 212-219.	0.2	2
30	High-level production of violacein by the newly isolated <i>Duganella violaceinigra</i> str. NI28 and its impact on <i>Staphylococcus aureus</i> . <i>Scientific Reports</i> , 2015, 5, 15598.	1.6	54
31	Effects of Carbon Dioxide Aerosols on the Viability of <i>Escherichia coli</i> during Biofilm Dispersal. <i>Scientific Reports</i> , 2015, 5, 13766.	1.6	8
32	Improved Sugar Production by Optimizing Planetary Mill Pretreatment and Enzyme Hydrolysis Process. <i>BioMed Research International</i> , 2015, 2015, 1-5.	0.9	0
33	Violacein: Properties and Production of a Versatile Bacterial Pigment. <i>BioMed Research International</i> , 2015, 2015, 1-8.	0.9	116
34	Analysis of <i>Clostridium beijerinckii</i> NCIMB 8052's transcriptional response to ferulic acid and its application to enhance the strain tolerance. <i>Biotechnology for Biofuels</i> , 2015, 8, 68.	6.2	26
35	Indole negatively impacts predation by <i>Bdellovibrio bacteriovorus</i> and its release from the bdelloplast. <i>Environmental Microbiology</i> , 2015, 17, 1009-1022.	1.8	39
36	Perspectives on the use of transcriptomics to advance biofuels. <i>AIMS Bioengineering</i> , 2015, 2, 487-506.	0.6	0

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37	Pretreatment with alum or powdered activated carbon reduces bacterial predation-associated irreversible fouling of membranes. <i>Biofouling</i> , 2014, 30, 1225-1233.	0.8	6
38	Shedding Light on Microbial Predator–Prey Population Dynamics Using a Quantitative Bioluminescence Assay. <i>Microbial Ecology</i> , 2014, 67, 167-176.	1.4	17
39	<i>Bdellovibrio bacteriovorus</i> Inhibits <i>Staphylococcus aureus</i> Biofilm Formation and Invasion into Human Epithelial Cells. <i>Scientific Reports</i> , 2014, 4, 3811.	1.6	67
40	Aqueous Two-Phase System Technology for Patterning Bacterial Communities and Biofilms. <i>Methods in Molecular Biology</i> , 2014, 1147, 23-32.	0.4	1
41	Co-culturing a novel <i>Bacillus</i> strain with <i>Clostridium tyrobutyricum</i> ATCC 25755 to produce butyric acid from sucrose. <i>Biotechnology for Biofuels</i> , 2013, 6, 35.	6.2	50
42	Assessing the effects of bacterial predation on membrane biofouling. <i>Water Research</i> , 2013, 47, 6024-6032.	5.3	26
43	Environmentally friendly pretreatment of plant biomass by planetary and attrition milling. <i>Bioresource Technology</i> , 2013, 144, 50-56.	4.8	55
44	Serum complement enhances the responses of genotoxin- and oxidative stress-sensitive <i>Escherichia coli</i> bioreporters. <i>Biosensors and Bioelectronics</i> , 2013, 46, 175-182.	5.3	12
45	Application of bacterial predation to mitigate recombinant bacterial populations and their DNA. <i>Soil Biology and Biochemistry</i> , 2013, 57, 427-435.	4.2	36
46	Detection of furfural and 5-hydroxymethylfurfural with a <i>yhcN::luxCDABE</i> bioreporter strain. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 15738-15743.	3.8	3
47	Sensing of plant hydrolysate-related phenolics with an <i>aaeXAB::luxCDABE</i> bioreporter strain of <i>Escherichia coli</i> . <i>Bioresource Technology</i> , 2013, 127, 429-434.	4.8	15
48	Productive Chemical Interaction between a Bacterial Microcolony Couple Is Enhanced by Periodic Relocation. <i>Journal of the American Chemical Society</i> , 2013, 135, 2242-2247.	6.6	31
49	Patterning Bacterial Communities on Epithelial Cells. <i>PLoS ONE</i> , 2013, 8, e67165.	1.1	31
50	Detection of toxic lignin hydrolysate-related compounds using an <i>inaA::luxCDABE</i> fusion strain. <i>Journal of Biotechnology</i> , 2012, 157, 598-604.	1.9	12
51	Combined application of bacterial predation and carbon dioxide aerosols to effectively remove biofilms. <i>Biofouling</i> , 2012, 28, 671-680.	0.8	26
52	Aqueous Two-Phase System-Derived Biofilms for Bacterial Interaction Studies. <i>Biomacromolecules</i> , 2012, 13, 2655-2661.	2.6	36
53	The production of biofuels from carbonated beverages. <i>Applied Energy</i> , 2012, 100, 47-51.	5.1	22
54	The Future of Butyric Acid in Industry. <i>Scientific World Journal</i> , The, 2012, 2012, 1-10.	0.8	146

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55	Identification of <i>Escherichia coli</i> biomarkers responsive to various lignin-hydrolysate compounds. <i>Bioresource Technology</i> , 2012, 114, 450-456.	4.8	23
56	The dual probiotic and antibiotic nature of <i>Bdellovibrio bacteriovorus</i> . <i>BMB Reports</i> , 2012, 45, 71-78.	1.1	123
57	Biological activities of lignin hydrolysate-related compounds. <i>BMB Reports</i> , 2012, 45, 265-274.	1.1	28
58	A microfluidic concentrator array for quantitative predation assays of predatory microbes. <i>Lab on A Chip</i> , 2011, 11, 2916.	3.1	18
59	Use of protein stability to develop dual luciferase toxicity bioreporter strains. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 1254-1261.	1.4	1
60	Microbial linguistics: perspectives and applications of microbial cell-to-cell communication. <i>BMB Reports</i> , 2011, 44, 1-10.	1.1	24
61	Synthetic biology for biofuels: Building designer microbes from the scratch. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 11-21.	1.4	29
62	Micropatterning bacterial suspensions using aqueous two phase systems. <i>Analyst</i> , 2010, 135, 2848.	1.7	33
63	The art of reporter proteins in science: past, present and future applications. <i>BMB Reports</i> , 2010, 43, 451-460.	1.1	67
64	Continuous hydrogen and butyric acid fermentation by immobilized <i>Clostridium tyrobutyricum</i> ATCC 25755: Effects of the glucose concentration and hydraulic retention time. <i>Bioresource Technology</i> , 2009, 100, 5352-5355.	4.8	45
65	Chemical-specific continuous biomonitoring using a recombinant bioluminescent bacterium DNT5 (<i>nagR-nagAa::luxCDABE</i>). <i>Journal of Biotechnology</i> , 2007, 131, 330-334.	1.9	6
66	Characterization and optimization of two methods in the immobilization of 12 bioluminescent strains. <i>Biosensors and Bioelectronics</i> , 2006, 22, 192-199.	5.3	27
67	A cell array biosensor for environmental toxicity analysis. <i>Biosensors and Bioelectronics</i> , 2005, 21, 500-507.	5.3	138
68	Construction and Evaluation of <i>nagR-nagAa::lux</i> Fusion Strains in Biosensing for Salicylic Acid Derivatives. <i>Applied Biochemistry and Biotechnology</i> , 2005, 120, 183-198.	1.4	19
69	An <i>Escherichia coli</i> biosensor capable of detecting both genotoxic and oxidative damage. <i>Applied Microbiology and Biotechnology</i> , 2004, 64, 46-52.	1.7	69
70	Detection and classification of oxidative damaging stresses using recombinant bioluminescent bacteria harboring <i>sodA</i> , <i>pqi</i> , and <i>katG</i> - <i>luxCDABE</i> fusions. <i>Enzyme and Microbial Technology</i> , 2004, 35, 540-544.	1.6	11
71	Construction and characterization of novel dual stress-responsive bacterial biosensors. <i>Biosensors and Bioelectronics</i> , 2004, 19, 977-985.	5.3	44
72	Enhancement of the multi-channel continuous monitoring system through the use of <i>Xenorhabdus luminescens lux</i> fusions. <i>Biosensors and Bioelectronics</i> , 2004, 20, 475-481.	5.3	11

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73	Whole-Cell-Based Biosensors for Environmental Biomonitoring and Application. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2004, 87, 269-305.	0.6	87
74	A biosensor for the detection of gas toxicity using a recombinant bioluminescent bacterium. <i>Biosensors and Bioelectronics</i> , 2000, 15, 23-30.	5.3	97